



SEQUENCE LISTING

<110> Schmidt, Alexander C.
Skiadopoulos, Mario S.
Collins, Peter L.
Murphy, Brian R.
Bailly, Jane E.
Durbin, Anna P.

<120> ATTENUATED HUMAN-BOVINE CHIMERIC PARAINFLUENZA VIRUS
(PIV) VACCINES

<130> 15280-399-1US

<140> 09/586,479
<141> 2000-06-01

<150> 60/143,134
<151> 1999-07-09

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<170> PatentIn Ver. 2.1

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flanking sites of sequence polymorphism in BPIV3
Ka

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flanking site for introduction of Sgr A1 site for
rBPIV3 Ka

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TECH CENTER 1600/2900

MAR 16 2001

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flanking site for introduction of Sgr A1 site for
rBPIV3 s

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flanking site for introduction of Sgr A1 site for
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flanking site for introduction of Bsi W1 site for
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flanking site for introduction of Bsi W1 site for
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flanking site for introduction of Bsi W1 site for
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<223> Description of Artificial Sequence: Sequence
flanking N gene start codon

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<223> Description of Artificial Sequence: Sequence
flanking N gene stop codon

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<223> Description of Artificial Sequence: Sequence
flanking introduced restriction site at N gene
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flanking introduced restriction site at N gene
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flanking N gene start codon in rJS

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<212> DNA

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flanking N gene stop codon in Ka and SF

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<212> DNA

<213> Bovine Parainfluenza Virus 3 (Ka strain)

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